

Name \_\_\_\_\_ Date \_\_\_\_\_

## Module 2 Review & Assessment

### Section 2:1 Estimate percent of a number and solve percent problems (2 points each)

- 1) Estimate 48% of 150      2) Estimate 23% of 112      3) Estimate 35% of 900

Solve the following using a proportion or an equation. (2 points each)

- 4) What is 52% of 116?      5) 89 is what percent of 1000?      6) 68 is 25% of what number?

### Section 2:2 Sale Price and Percent of Change (2 points each)

- 7) An item is \$59.50. It is on sale for 33% off. What is the sale price?

- 8) Find the percent of change for an item that was originally priced at \$130 and is now on sale for \$107.

- 9) A town had a population of 250 people in 1980. The current population is 6000. Calculate the percent of change.

### Section 2:3 Probability

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10) A cooler contains 6 juice boxes, 8 cans of soda, and 5 bottles of water. What is the probability of the following: (1 point each)

- a) pulling a can of soda on the first pick?
- b) pulling a bottle of water on the first pick?
- c) pulling a bottle of water or can of soda on the first pick?

11) There is a cooler that contains drinks. Your sister picks the 1<sup>st</sup> drink and it is a juice box. She keeps the juice box. You pick a soda on the second pick. Are these events dependent or independent of each other. Explain your answer in a COMPLETE SENTENCE. (2 points)

12) You and your friend do an experiment to see your chances of pulling the same type of drink numerous times. Each time, you pick a drink, record the type, and then return it to the cooler. Your results are shown in the table below. What is the experimental probability of picking a soda first? (1 point)

Juice box	Soda	Water
15	12	10

13) Mrs. Koenig is going out to eat to celebrate her birthday. She has the following clothing items to choose from for her outfit: skirt or dress pants; sweater or dress shirt; boots, heels, or flats. Draw a tree diagram to show the possible outfit options Mrs. Koenig has. (4 points)

14) What is the theoretical probability that she will select a skirt? (1 point)

## Integers: NO CALCULATOR SECTION

### Section 2:4 Integers (2 points each)

Write the absolute value of the following.

22)  $|-19|$

23)  $|24|$

24)  $|-6.58|$

Evaluate each expression. (2 points each)

25)  $57 - (-15)$

26)  $93 - (-2)$

27)  $-51 \div -3$

28)  $-138 \div 3$

29)  $-12 \bullet -2$

30)  $5 + (-12) - 52$

31)  $-10 - 14$

32)  $17 + -3$

33)  $100 \div (-25)$

34)  $-11 \bullet -2$

35)  $-15 + -15$

36)  $-64 + 64$

37) What two numbers have the absolute value of 9?